

ABSTRACT OF THE DISCLOSURE

An ocean wave energy conversion apparatus comprises a floating section comprising a float and a lever having one end coupled to the float; and a fixed section mounted on a seacoast, ship, or production platform and comprising a float adapted to ride on the surface of the ocean in reciprocal vertical motion in response to ocean wave front action, and a lever adapted to ride on the surface of the ocean, the lever having one end coupled to the float; and a fixed section mounted on a seacoast, ship, or production platform and comprising a fulcrum for pivotably supporting the lever, magnet coupled to the other end of the lever, parallel cores together with the magnet for forming a magnetic circuit, parallel electric coils, resilient means adjacent the magnet interconnected the lever and the magnet, barriers each disposed between two adjacent the core, and support means. An upward motion of the float caused by the impact of waves will move the magnet downward by the lever and compress the resilient means, a downward motion of the float will move the magnet upward by the lever and expand the resilient means, and a repeated movement of the magnet will induce a voltage in the electric coils.